CONSTRUCTION NOTES:

OUTLET PROTECTION RIP RAP APRON
1. FOLLOW REQUIRED LINES AND GRADES FOR THE FILTER AND RIPRAP SUBGRADE
2. DO NOT PUNCH OR TEAR THE FILTER FABRIC. REPAIR ANY DAMAGED AREAS. ALL CONNECTING JOINTS SHOULD BE OVERLAPPED SO THE TOP LAYER IS ABOVE THE DOWNSTREAM LAYER A MINIMUM OF 1 FOOT
3. MINIMUM THICKNESS OF RIPRAP SHOULD BE 1.5 TIMES THE MAXIMUM STONE DIAMETER
4. RIPRAP MAY BE FIELD STONE OR ROUGH QUARRY STONE. IT SHOULD BE HARD, ANGULAR, HIGHLY WEATHER-RESISTANT AND WELL GRADED
5. CONSTRUCT THE APRON ON ZERO GRADE WITH NO OVERFALL AT THE END. MAKE THE TOP OF THE RIPRAP AT THE DOWNSTREAM END LEVEL WITH THE RECEIVING AREA OR SLIGHTLY BELOW IT
6. PROPERLY ALIGN THE APRON WITH THE RECEIVING STREAM AND PREFERABLY STRAIGHT THROUGHOUT ITS LENGTH. IF A CURVE IS NEEDED TO FIT SITE CONDITIONS, PLACE IT IN THE UPPER SECTION OF THE APRON
7. IMMEDIATELY FOLLOWING CONSTRUCTION, STABILIZE ALL DISTURBED AREAS WITH VEGETATION

TEMPORARY CHECK DAMS
1. PLACE STONE TO LINES AND DIMENSIONS SHOWN IN THE PLANS
2. KEEP THE CENTER STONE SECTION AT LEAST 9 INCHES BELOW NATURAL GROUND LEVEL WHERE THE DAM ABUTS THE CHANNEL BANKS
3. EXTEND STONE AT LEAST 1.5 FEET BEYOND THE DITCH BANK TO KEEP WATER FROM BOWING AROUND THE ENDS OF THE CHECK DAM
4. SPACE DAMS SO THAT ELEVATION AT THE TOP OF THE LOWER DAM IS THE SAME AS THE TOE ELEVATION OF THE UPPER DAM
5. PROTECT THE CHANNEL AFTER THE LOWEST CHECK DAM FROM HEAVY FLOW THAT COULD CAUSE EROSION
6. MAKE SURE THAT THE CHANNEL REACH ABOVE THE MOST UPSTREAM DAM IS STABLE
7. MAKE SURE THAT OTHER AREAS OF THE CHANNEL, SUCH AS CULVERT ENTRANCES BELOW THE CHECK DAMS, ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES

SILT FENCE
1. ENSURE THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24 INCHES ABOVE GROUND SURFACE
2. WHEN JOINTS IN FENCE ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITH 4-6 FOOT MINIMUM OVERLAP TO NEXT POST
3. CONNECT THE FENCE FABRIC TO THE POSTS WITH ZIP TIES HAVING A MINIMUM 50 POUND TENSILE STRENGTH
4. INSTALL SILT FENCE IN A TRENCH APPROXIMATELY 8" WIDE AND 8" DEEP ALONG THE PROPOSED LINE OF POSTS AND UP SLOPE FROM THE BARRIER
5. PLACE 12" OF FABRIC ALONG THE BOTTOM AND SIDE OF TRENCH
6. BACKFILL THE TRENCH WITH SOIL PLACED OVER THE FILTER FABRIC AND COMPACT
7. DO NOT ATTACH SILT FENCE FABRIC TO EXISTING TREES

EROSION CONTROL MATTING
1. INSTALL MATTING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
2. APPLY FERTILIZER AND SEED BEFORE LAYING THE MATTING
3. ROLL OUT STRIPS OF MATTING PARALLEL TO THE DIRECTION OF FLOW WITHIN DITCHES
4. START LAYING NETTING FROM THE TOP OF CHANNEL
5. SECURE NETTING AT TOP OF SLOPE IN A SLOT OR TRENCH NO LESS THAN 6" DEEP, THEN COVER WITH SOIL AND TAMP FIRMLY IN PLACE
6. STAPLE NETTING EVERY 12" ACROSS THE TOP AND EVERY 3 FEET AROUND THE EDGES AND BOTTOM. WHEN 2 ARE LAID SIDE BY SIDE, OVERLAP 3" AND STAPLE TOGETHER. EACH STRIP OF NETTING SHOULD BE STAPLED DOWN THE MIDDLE

CONSTRUCTION ENTRANCE/EXIT
1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT
2. PLACE THE GRAVEL (2" TO 3" WASHED STONE) TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT
3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET
4. USE GEOTEXTILE TO IMPROVE THE STABILITY OF THE FOUNDATIONS IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE

MAINTENANCE NOTES:

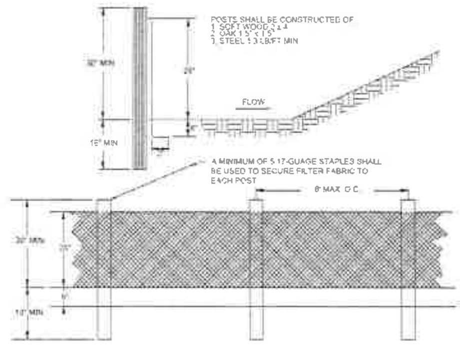
OUTLET PROTECTION RIP RAP APRON
1. INSPECT RIPRAP OUTLET STRUCTURES WEEKLY AND AFTER SIGNIFICANT (1/2" OR GREATER) RAINFALL EVENTS
2. DURING INSPECTION, MAKE OBSERVATIONS OF ANY EROSION AROUND OR BELOW THE RIP RAP OR IF STONES HAVE BEEN DISLODGED
3. IMMEDIATELY MAKE ANY REPAIRS NEEDED

TEMPORARY CHECK DAMS
1. INSPECT CHECK DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2" OR GREATER) RAINFALL EVENT
2. IMMEDIATELY MAKE ANY REPAIRS NEEDED
3. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED
4. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, ADDITIONAL MEASURES SHOULD BE TAKEN SUCH AS INSTALLING A PROTECTIVE RIPRAP LINER
5. ADD ADDITIONAL STONE TO THE DAM AS NEEDED TO MAINTAIN THE DESIGN HEIGHT AND CROSS SECTION

SILT FENCE
1. INSPECT SILT FENCE AT LEAST ONCE PER WEEK AND AFTER EACH RAINFALL EVENT
2. MAKE ANY REQUIRED REPAIRS IMMEDIATELY
3. IF THE FABRIC OF THE SILT FENCE IS DAMAGED AND NOT WORKING AS INTENDED, REPLACE THE SECTION OF SILT FENCE IMMEDIATELY
4. REMOVE SEDIMENT THAT HAS COLLECTED IN FRONT OF THE SILT FENCE AS NEEDED
5. ONCE THE DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE

EROSION CONTROL MATTING
1. INSPECT THE MATTING PERIODICALLY AND AFTER RAINSTORMS TO CHECK FOR RILL EROSION, MOVEMENT OR FAILURE
2. IF EROSION IS OBSERVED, APPLY ADDITIONAL MATTING
3. IF WASHOUT OCCURS, REPAIR THE SLOPE GRADE, RESEED AND REINSTALL MATTING
4. CONTINUE INSPECTIONS UNTIL VEGETATION IS FIRMLY ESTABLISHED

CONSTRUCTION ENTRANCE/EXIT
1. MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE
2. PERIODICALLY TOP DRESS WITH 2 INCH STONE AS NEEDED
3. AFTER EACH RAINFALL, INSPECT THE ENTRANCE FOR BUILDUP OF SEDIMENT AND CLEAN AS NECESSARY
4. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS



SILT FENCE DETAIL
N.T.S.

Temporary Seeding Specifications
Late Winter / Early Spring

Seed Type	Application Rate (lb/acre)	Fertilizer	Application Rate (lb/acre)	Mulch	Application Rate (lb/acre)	Seeding Dates
Rye	120	10-10-10	750	Straw	4,000	Jan 1 - May 1

Temporary Seeding Specifications
Summer

Seed Type	Application Rate (lb/acre)	Fertilizer	Application Rate (lb/acre)	Mulch	Application Rate (lb/acre)	Seeding Dates
[illegible]	[illegible]	10-10-10	750	Straw	4,000	[illegible] - Aug 15

Temporary Seeding Specifications
Fall

Seed Type	Application Rate (lb/acre)	Fertilizer	Application Rate (lb/acre)	Mulch	Application Rate (lb/acre)	Seeding Dates
Rye	120	10-10-10	500	Straw	4,000	Aug 15 - Dec 30

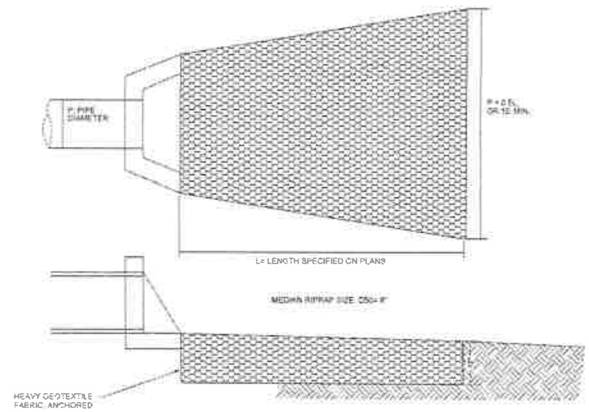
Permanent Seeding Specifications

Seed Type	Application Rate (lb/acre)	Fertilizer	Application Rate (lb/acre)	Mulch	Application Rate (lb/acre)	Seeding Dates
Tall Fescue	[illegible]	[illegible]	[illegible]	Straw	4,000	[illegible] - Apr 15

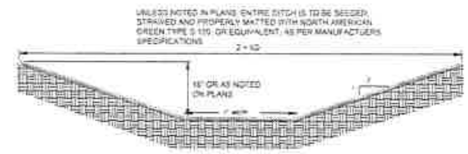
General Notes

1. Groundcover on exposed slopes shall be established within 21 calendar days following the completion of any phase of grading
2. Permanent groundcover for all disturbed areas within 15 working days or 90 calendar days (whichever is shorter) following completion of construction or development
3. The following table provides Ground Stabilization Requirements for general permit NCG010000

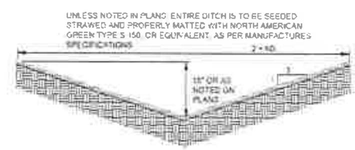
Site Area Description	Stabilization Time Frame	Stabilization Time Frame Exemptions
Perimeter dikes, swales, ditches and slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50 feet in length
All other areas with slopes flatter than 4:1	14 days	None (except for perimeters and HQW Zones)



OUTLET DETAIL
N.T.S.



TRAPEZOIDAL DITCH
N.T.S.



"V" BOTTOM DITCH
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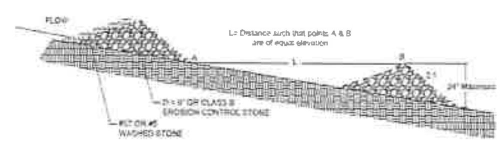

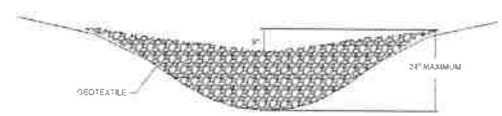

TEMP. ROCK SILT CHECKS
N.T.S.

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COBB - VANTRESS
BROOD FACILITIES EXPANSION
SITE PLAN

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APPROVED BY: GLS

DATE: XXX | ISSUE: APPROVAL

TITLE: EROSION CONTROL DETAILS

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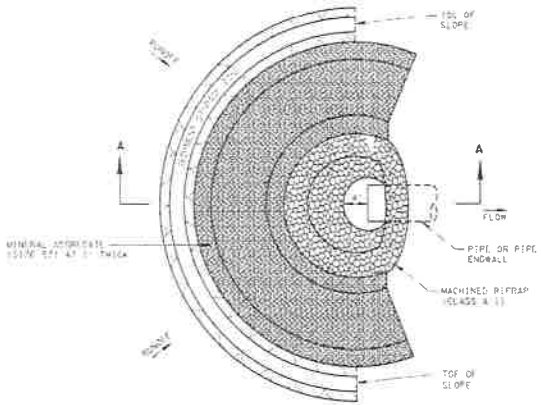
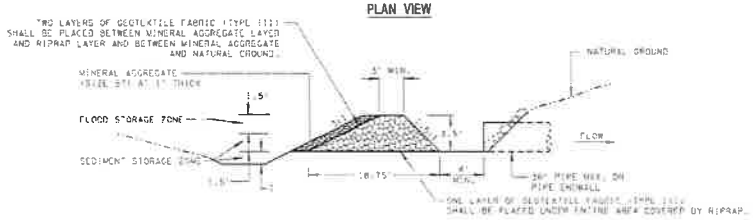


PLAN VIEW



ROCK RING DETAIL
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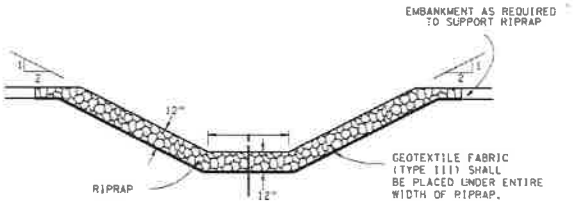

RIPRAP CHANNEL ENERGY DISSIPATOR
N.T.S.

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EROSION CONTROL DETAILS

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